

Notice of Allowability

Application No.

09/977,786

Applicant(s)

HERZINGER, STEFAN

Examiner

Dionne N Harvey

Art Unit

2643

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to _____.
2. ☐ The allowed claim(s) is/are 1-11.
3. ☒ The drawings filed on 06 January 2002 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 10-15-01
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

EXAMINER'S AMENDMENT & NOTICE OF ALLOWANCE

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below :

The application has been amended as follows:

In claim 3, on line 17, "upper end of the lower" has been replaced with

-- upper end of a range of the lower --

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: The prior art or record fails to teach or to fairly suggest a frequency generating system for a mobile radio transceiver operating in two radio frequency bands spaced apart from each other, comprising the novel feature of two mutually offset local-oscillator frequency bands, one being lower than the other, and wherein the higher local-oscillator frequency band is exclusively provided for converting the UPPER RECEIVE frequency band into the receive IF, that being single band utilization; and the lower local oscillator frequency band is provided both for converting the LOWER RECEIVE frequency band into the receive IF, and also for converting the transmit signal from an IF into an RF transmit frequency in the UPPER TRANSMIT frequency band and the LOWER TRANSMIT frequency band, that being triple band utilization; whereby the percentage frequency differences between the two mutually offset local oscillator frequency bands is of such a magnitude that both the lower and higher local-oscillator frequency bands

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can be generated by a single voltage-controlled oscillator having a resonator which is electronically switched in the manner of band-switching .

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Damagaard (US 6,766,178) teaches RF architecture for a cellular telephone.

Pau (US 6,754,508) teaches a multiband wireless transceiver.

Gore (US 6,484,038) teaches apparatus for generating a plurality of frequencies.

Haruki (US 4,246,539) teaches a synthesizing system for a transceiver.

Higuchi (US 6,725,019) teaches a multi-band radio terminal.

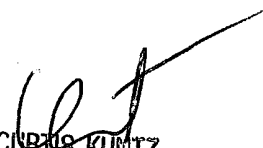
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dionne N Harvey whose telephone number is 703-305-1111. The examiner can normally be reached on 9-6:30 M-F and alternating Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis Kuntz can be reached on 703-305-4708. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dionne Harvey


CURTIS KUNTZ
SUPERVISORY PATENT EXAMINER
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